Patent [19]

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[54] AIR CLEANER FOR VEHICLE

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[57] ABSTRACT

PROBLEM TO BE SOLVED: To solve the visual problem of an air cleaner for vehicles having a deodorization filter which allows the regeneration of a deodorization function by the effect of a photocatalyst.

SOLUTION: The deodorization filter 4 used for the air cleaner I is constituted by attaching photocatalyst particles of titanium dioxide, or the like, to an adsorbent consisting of a porous material (for example, active carbon filter). The titanium dioxide is a photocatalyst which exhibits extremely highly active oxidation power by irradiating the dioxide with UV rays of about 380 nm wave length. A cover 7 for covering the upper part of the deodorization filter 4 is formed by using a resin material of the material quality that the transmittance to light wavelengths is high in a UV region and is low in a visible ray region. Namely, the UV transmittance of the material constituting this cover 7 is &e;50% and the visible ray transmittance thereof is below 50%. As a result, the transmission of the UV component of the sunshine and the irradiation of the deodorization filter 4 with this component are made possible. In addition, the seeing-through of the internal structure of the apparatus may be prevented by approximately shutting off the visible rays.

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